



OWNERS MANUAL



VHF Marine Radio Transceiver

BlueBound 650B

BlueBound 650W

HVIN:BlueBound 650B

HVIN:BlueBound 650W

Thank you for purchasing a Cobra Marine® VHF radio. When used properly, this Cobra® product will give you many years of reliable service.

Cobra Electronics Corporation

1701 Golf Road Suite 3-900, Rolling Meadows, Illinois, 60008, United States

How Your Cobra Marine VHF Radio Works

This radio is a battery-powered portable transceiver for use on the water. It gives you 2-way vessel-to-vessel and vessel-to-shore station communications, primarily for safety and secondarily for navigation and operational purposes. With it, you can call for help, get information from other boaters, talk to lock or bridge tenders and make radiotelephone calls to anywhere in the world through a marine operator. Besides 2-way communications, in the U.S.A., the radio can provide quick access to receive ten NOAA (National Oceanographic and Atmospheric Administration) and two Canadian weather channels for alerting you to weather emergencies with a tone on a weather channel you can select for your area.

Customer Assistance

Should you encounter any problems with this product or not understand its features, please refer to this manual. If you require further assistance after reading this manual, Cobra Electronics offers the following customer assistance services:

Call: 800-543-1608

- Monday-Friday 9:00 AM-5:00 PM EST

Open a support ticket on Cobra.com: <https://www.cobra.com/pages/contact-us>

Chat with a live agent: <https://www.cobra.com/>

- Monday-Friday 10:00 AM-6:30 PM EST
- Look for the chat icon at the lower bottom right side of the web pages.

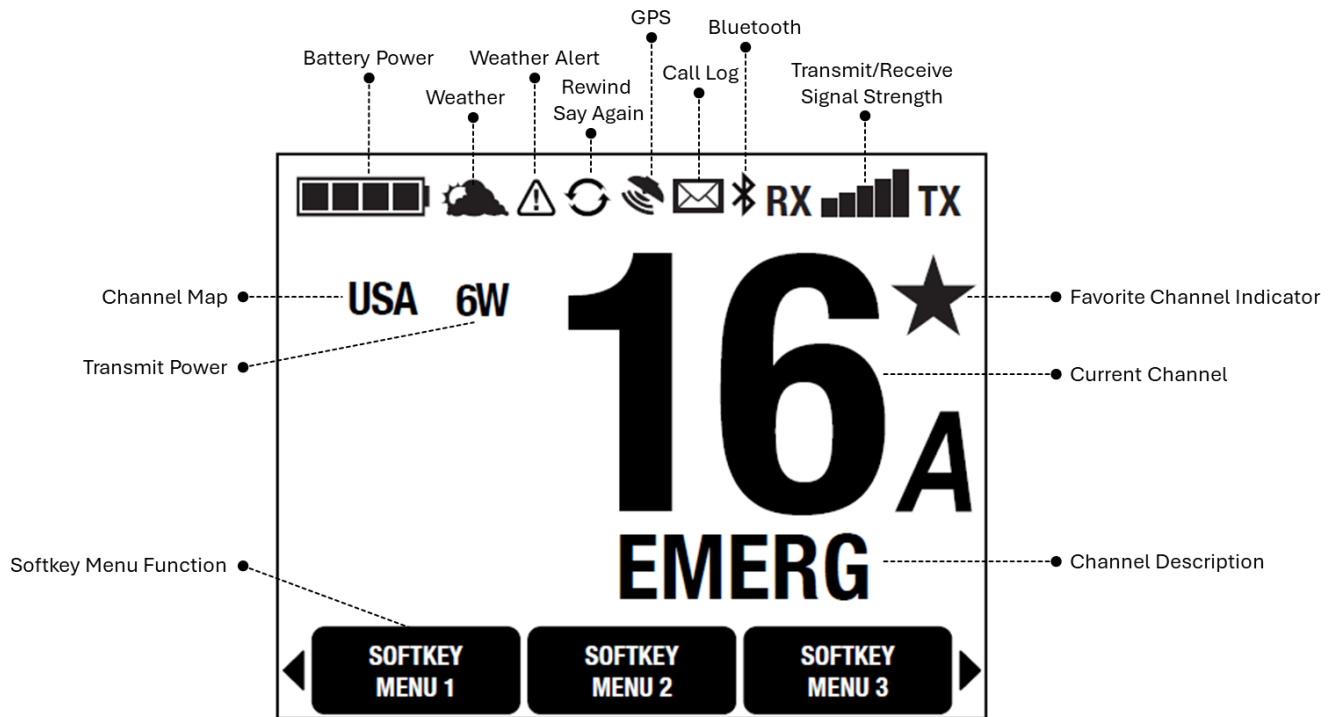
For Assistance Outside the U.S.A

Contact Your Local Dealer

Radio Overview



LCD Display Overview



Product Features

Power Settings

Select 1, 3 or 6 Watts of output power for near or distant calling

Built-In GPS Receiver

Shows GPS coordinates on screen and automatically sends GPS location with DSC calls

Digital Selective Calling (DSC Class-D)

Allows the ability to maintain a listening watch on VHF Channel 16 while simultaneously monitoring Channel 70 for DSC calls. Allows sending a distress message at the touch of a button as well as specific station-to-station calls.

Active Noise Cancelling

Reduce background noise on both incoming and outgoing transmissions.

Bluetooth Connectivity

Pair your cell phone to receive voice calls through the BlueBound 650B or pair with a wireless headset for hands free communication.

USA/International/Canada Channels

Allows operation on any of the three (3) different channel maps established for these areas

Floating and Waterproof

IPX7 waterproofing ensures radio floats when immersed in water

Float N' Flash

Radio strobe light will flash while floating when dropped in water

Dock Charger

Dock charger with additional battery charging slot for recharging radio

Charging Adapters

Includes charging dock adapter cables for both AC and power outlets.

Instant Channel 16/9

Provides instant access to priority channel 16 and calling channel 9

Tri-Watch

Use to monitor three channels at once, Channel 16 and two user selected channels

Rechargeable Lithium-ion Battery

Recharge using the included USB-C dock charger and adaptor

Favorite Channels

Save important channels as favorites

Speaker Mic Jack

Allows for connection to the Cobra speaker mic accessory

Backlit Keypad & Day/Night Display

Day/Night LCD display and backlit functional buttons for high visibility

Locking Battery Latch

Quick release battery latch with sliding lock tab

BURP

Expels water from the speaker grill if the unit is dropped in the water or is subjected to extreme rain and weather

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VHF Marine Channel Assignments & Maps

Before using your Cobra marine VHF radio, please read these general precautions and warnings.

How Your Cobra Marine VHF Radio Works

Proper usage of this radio is important to achieve full functionality, so please read the operating instructions carefully before first use and refer to this guide again whenever necessary. Please pay special attention to the WARNING and NOTICE statements in this manual.

WARNING : Statements identify conditions that could result in personal injury or loss of life.

NOTICE : Statements identify conditions that could cause damage to the radio or other equipment.

Safety Training Information

This Cobra Marine VHF radio complies with the following guidelines and standards regarding RF energy and electromagnetic energy levels as well as evaluation of those levels for human exposure.

1. FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for human exposure to radio frequency electromagnetic fields.
2. American National Standards Institute (C95.1-1992), IEEE Recommended Practice for the measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave.
3. American National Standards Institute (C95.3-1992), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300GHz.
4. Industry Canada RSS-102-Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands).
 - a. Conformité d'exposition de la fréquence du Canada RSS-102-Radio d'industrie (rf) de l'appareillage de communication par radio (toutes les bandes de fréquence).

ALWAYS use only Cobra authorized accessories.

DO NOT operate the radio in an explosive atmosphere, near blasting sites, or in any area where signs are posted prohibiting radio transmissions.

NEVER place the transceiver or microphone/speaker where they might interfere with operation of your vessel or cause injury.

DO NOT allow children or anyone unfamiliar with proper procedures to operate the radio without supervision.

Failure to observe any of these warnings may cause you to exceed FCC RF exposure limits or create other dangerous conditions

For Products Purchased Outside the U.S.A. or Canada

Please contact your local dealer for product service information.

For Products Used in Canada

Industry Canada Notice

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Industry Canada Antenna Notice

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be chosen so that the equivalent isotopically radiated power is not more than necessary for successful communication.

Avis d'antenne du Canada d'industrie

En vertu de la réglementation de l'industrie du Canada, cet émetteur de radio ne peut fonctionner à l'aide d'une antenne d'un type et un maximum (ou moins) Gain approuvé pour l'émetteur par Industrie Canada. Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisis afin que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

NOTICE

Your radio is waterproof only when the battery is properly installed.

AVOID using or storing the radio at temperatures below -4 ° F (-20 ° C) or above 140 ° F (60 ° C).

KEEP your radio at least 3 ft (0.9 m) away from your vessel's magnetic navigation compass.

DO NOT attempt to service any internal parts yourself. Have any necessary service performed by a qualified technician.

This radio comes with a rechargeable Lithium-ion battery

Do not short circuit the battery.

When replacing the battery, dispose of the old battery properly.

Do not attempt to operate your radio while recharging the battery.

Changes of modifications to your radio may void its compliance with FCC rules and regulations, making it possibly unsafe and illegal to use.

Recommendations for Marine Communication

The frequencies your radio uses are set aside to enhance safety afloat, for vessel navigation, and for operational messages over a range suitable for near-shore voyages. If the 6-Watt maximum output of your radio is not sufficient for the distances you travel from the coast, consider installing a Cobra Marine fixed mount radio with up to 25 Watts of output power.

The U.S Coast Guard does not endorse cellular telephones as substitutes for marine radios. They generally cannot communicate with rescue vessels and, if you make a distress call on a mobile telephone, only the party you call will be able to hear you. Additionally, mobile telephones may have limited coverage over water and can be hard to locate. If you do not know where you are, the Coast Guard will have difficulty finding you if you are using a mobile telephone

However, cellular telephones can have a place on board where cellular coverage is available to allow social conversations and keep the marine frequencies uncluttered and available for their intended uses.

FCC Licensing Information

Cobra Marine VHF radios comply with the FCC requirements that regulate the Maritime Radio Service.

The radio operates on all currently allocated marine channels and is switchable for use according to USA, International or Canadian regulations. It features instant access to emergency Channel 16 and calling Channel 9 as well as NOAA All Hazards Radio.

The transceiver is capable of Class-D Digital Selective Calling (DSC) operation in accordance with CFR Part 47, Section 80,225.

Station License

An FCC ship station license is not required for any vessel traveling in U.S waters that use a VHF marine radio, RADAR, or EPIRB, and those that are not required to carry radio equipment. However, any vessel required to carry a marine radio on an international voyage, carrying an HF single side band radiotelephone, or carrying a marine satellite terminal must obtain a station license.

International Station License

If your vessel will be entering the sovereign waters of a country other than the U.S.A. or Canada, you should contact that country's communications regulatory authority for licensing information.

Radio Call Sign

Currently, the FCC does not require recreational boaters to have a license. The United States Coast Guard recommends that the boat's registration number and state of registry be used as a call sign and be clearly visible on the vessel.

Canadian Ship Station License

You need a Radio Operator's Certificate if your vessel is operated in Canadian waters. Radio Operator training and certification is available from the Canadian Power Squadron.

User Responsibility and Operating Locations

All users are responsible for observing domestic and foreign government regulations and are subject to severe penalties for violations. The VHF frequencies on your radio are reserved for marine use and require a special license to operate from land, including when your boat is on its trailer.

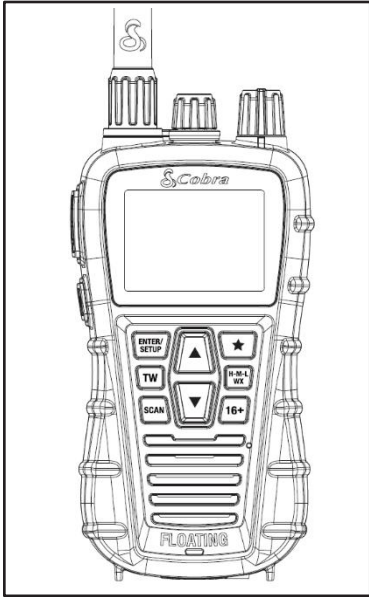
NOTE: This device complies with part 15 of the FCC Rules, and Industry Canada license-exempt RSS standards. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.

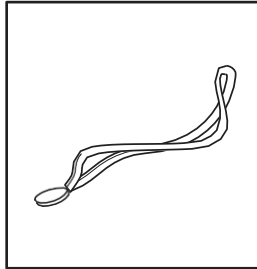
FCC Warning: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra may cause a violation of the technical regulations of part 80 of the FCC Rules, or violation of type acceptance requirements of part 2 of the rules.

Included in this Package

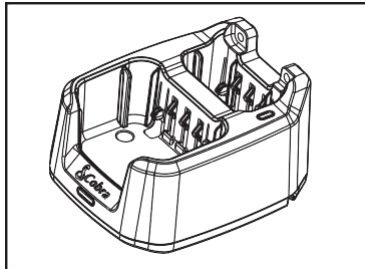
Radio



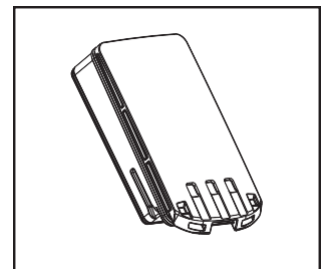
Wrist Strap



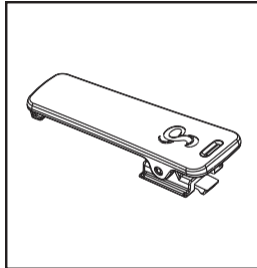
Dock Charger



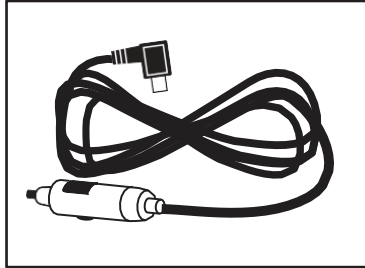
Lithium-ion Battery



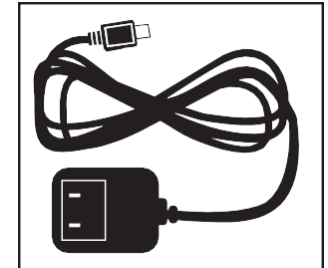
Spring-Loaded Belt Clip



12V Charging Adaptor



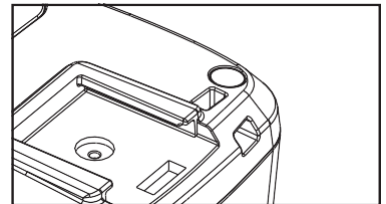
AC Charging Adaptor



Wrist Strap and Belt Clip

Wrist Strap

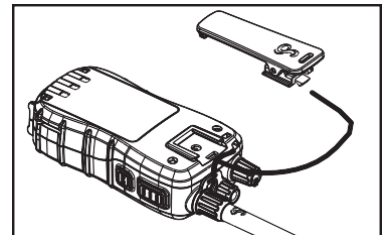
The wrist strap is attached to the radio by routing the tether cord through the wrist strap hole on the upper back portion of the radio's housing.



Belt Clip

Use the spring-loaded belt clip to carry the radio on your person.

1. Slide the belt clip into the guide channel on the back of the radio until it is locked in place
2. Press the belt clip open and place it over the belt.
3. To remove the belt clip from the radio, press the tab on the belt clip, which unlocks the clip and slide the clip out from the radio.



External Speaker/Microphone Jack

Your radio can be fitted with an optional External Speaker/Microphone (not included), freeing your hands for other tasks. Contact your local Cobra Marine dealer or visit Cobra.com to find out more about the marine speaker mic accessory.

To attach the external speaker/microphone:

1. Open the speaker/microphone tab on top of the radio.
2. Insert the plug into the speaker/microphone jack.

Warning: An Improper connection of the speaker microphone can compromise the radio's waterproofness.

Batteries and Charging

The radio is shipped with a sealed rechargeable Lithium-ion (LiON) battery (P/N 0010103-2).

Warning: The charger provided for this radio is only to be used to charge the battery pack provided. Do not charge any other type of batteries in the charger as fire, explosion or battery damage could occur. Avoiding extreme temperatures will also help prolong the life of the battery pack for the radio.

Installing the Battery Pack

1. Slide the bottom locking latch to the Unlock position.
2. Position the battery pack over the back of the radio.
3. Insert the battery tabs into their corresponding slots and press down to secure the battery with the battery latch.
4. Slide the battery locking latch to the locked position.

Removing the Battery Pack

1. Slide the battery locking latch to the Unlock position.
2. Push down on the battery latch to release the battery.
3. Gently remove the battery from the rear of the radio.

Initial Charge

The Cobra provided Lithium-ion battery pack may be charged using the supplied dock charger with either the 12V or AC charging adapter. Additionally, the provided dock charger also contains a slot to charge an additional backup battery. Both the radio and an extra battery (sold separately) can be charged simultaneously in the dock charger.

To charge your radio

1. Connect either the 12V or AC charging adapter to their respective power outlets.
2. Connect the USB-C end of the charging adapter to the dock charger.
3. Place your radio into the front slot on the dock charger. The light on the front of the dock charge will indicate that the radio is being charged.
4. When the light turns green the radio's battery is fully charged.

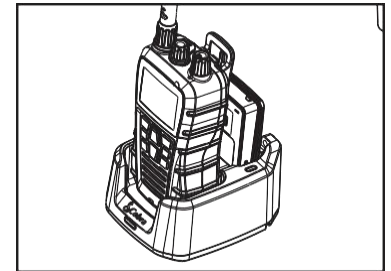
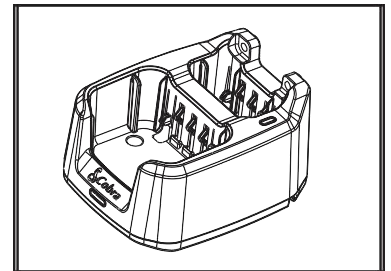
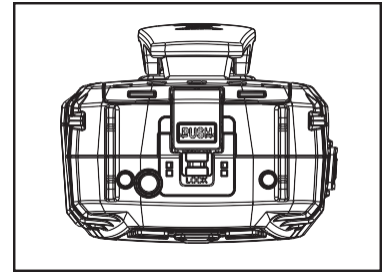
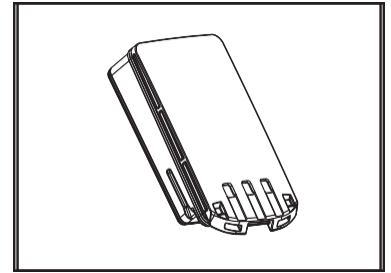
To charge an extra battery

1. Position the battery so that the terminals on the battery match the same side as the terminals on the charger.
2. Slide the battery into the rear slot on the dock charger. The light on the side of the dock charger will indicate that the battery is being charged.
3. When the light turns green the battery is fully charged.

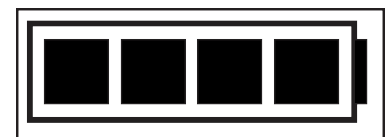
Warning: Only use Cobra BlueBound battery packs with the supplied dock charger.

Battery Charge Levels

As you use your radio, the battery power icon will show the remaining



Fully Charged



Partially Charged



Fully Discharged



battery power. As the radio's battery is drained, the displayed charge bar will begin to decrease. When the battery icon begins to flash, it is time to recharge or change the battery. It is recommended to recharge your radio after every use to keep the battery fully charged.

Basic Radio Functions

Refer to the radio overview section at the beginning of the manual to identify the various controls and indicators on your radio. Throughout this manual you will be instructed to “Press” or to “Press and Hold” various buttons (except PTT “Push to Talk”) on the radio. “Press” means a momentary press of approximately one second. “Press and Hold” means to hold the button down for approximately three seconds.

Whenever you press any button except the PTT button on your radio, a brief tone (beep) will sound to confirm the button press. With all button presses, the appropriate icon will appear on the LCD and the backlight will turn on for 10 seconds.

At times, you will hear two other sounds. Two beeps will sound to confirm your setting changes, and three beeps will sound to notify you of an error.

Power Knob

Powering ON/OFF the radio:

1. To turn the radio ON, rotate the power knob clockwise past the orange indicator line
2. To turn the radio OFF, rotate the knob counterclockwise fully until the orange line on the knob aligns with the orange indicator line on the radio.

Power Saver

Your radio has a unique circuit designed to extend battery life. If there are no transmissions, signals, or button presses for ten seconds, the radio will automatically switch to Power Save mode. Signal reception or any button press will take the radio out of Power Save mode.

Volume Control

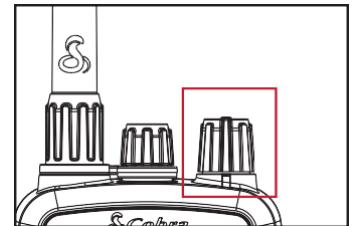
- To turn the volume up on the radio, rotate the POWER/VOLUME knob clockwise, up to the maximum level.
- To turn the volume down on the radio, rotate the POWER/VOLUME knob counterclockwise.

Radio Speaker and Microphone

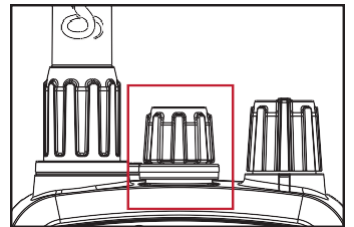
The internal radio speaker and microphone are located on the bottom front face of the radio below the lower control buttons.

An optional Speaker/Microphone jack is located at the top of the radio. Flip the protective cap open and insert the plug into the jack to connect Cobra's

Power/Volume Knob



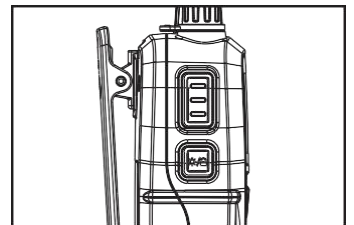
Speaker Mic



Speaker & Microphone



Backlight/Key Lock



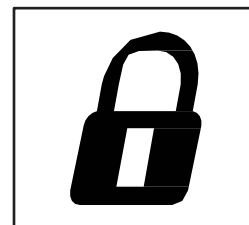
accessory Speaker Mic.

Backlight/Key Lock Button

The LCD will be illuminated by the backlight when any button is pressed (apart from the PTT button) and will remain on for 10 seconds after the button is released. Press the Backlight/Key Lock button to display the backlight temporarily. The backlight will remain ON for 10 seconds. If the backlight is already On, a press of the Backlight/Key Lock button will turn the backlight Off.

Key Lock

To prevent accidental changes to your settings, you can lock all the buttons on the front of the radio with the Backlight/Key Lock button.



To Lock or Unlock the Buttons:

Press and hold the Backlight/Key Lock button for two seconds. The Key Lock icon will appear or disappear on the LCD screen, indicating if Key Lock has been enabled or disabled. When Key Lock is on, pressing any of the buttons on the front of the radio will result in a three-beep error tone.

Both the Backlight/Key Lock button and the PTT button are still active when key lock has been enabled. You can Receive (Rx) or Transmit (Tx) a message with Key Lock On, but you cannot change channels or modify other settings.

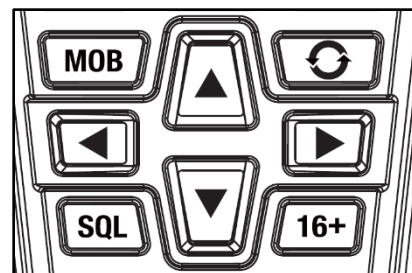
Channel Up/Down Buttons

Your radio will Receive (Rx) and Transmit (Tx) VHF signals on the channel indicated on the LCD display. You can change the channel at any time using the Channel Up/Down buttons.

To Change Channels:

Press the Channel Up/Down buttons.

When you reach the highest channel in the current channel map, pressing the Channel Up button will return to the beginning of the channel map at the lowest channel. If you are on the lowest channel in the current channel map, pressing the Channel Down button will return to the end of the channel map at the highest channel.



You can press and hold the Channel Up/Down button for automatic scrolling through channels.

If the newly selected channel is restricted to low power, the radio will automatically switch to Low Power mode, and the lower power level will display on the LCD screen

If the radio is in Key Lock mode, the channel will not change and the three beep error signal will sound.

Squelch (SQL) Button

Squelch control filters weak signals and radio frequency (RF) noise so that you can clearly hear the signals you want.

1. Press the SQL button to open the squelch control menu.
2. Press the UP/DOWN arrow keys to adjust squelch levels between 0-10.
3. To adjust squelch, press the DOWN arrow key until you hear a hissing sound, then press and release the UP arrow key until the hissing stops. This will establish a “Baseline” squelch.
4. Pressing the UP arrow key further will filter out weak and medium strength signals. Pressing the DOWN arrow key will allow for the radio to receive weaker signals.
5. Press the ENTER softkey to save your selection and return to VHF standby mode. Alternatively, if no action is taken by the user for 10 seconds, the radio will automatically save settings and return to VHF standby mode.

Note: if squelch is too low where there is continuous received transmission noise being output, Tri-Watch & scan functionality will be temporarily disabled.

16+ Button

The 16+ button gives you quick access to Channel 16 and Channel 9 from any operational mode.

- Press the 16+ button to change to Channel 16.
- Press the 16+ button again to change to Channel 9.
- Press the 16+ button a third time to return to the last used marine standby channel.

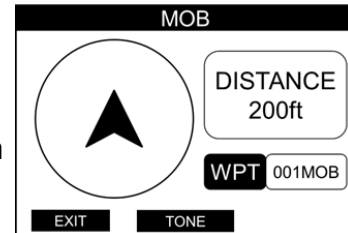
Man Overboard (MOB) Button

Your radio features the Man Overboard function that marks and memorizes the position information if a crew member falls overboard. The radio will help navigate back to that location.

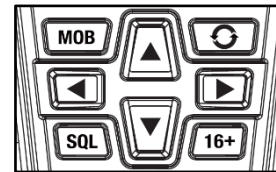
Note: The radio can't calculate for the effects of tide, current and wind on your crew member's location over time. The MOB function can only act as a guide for their possible location.

Note: The radio must have satellite reception for MOB to mark the position.

1. Press and release the MOB key to save your current coordinates as a waypoint and automatically enter the MOB compass.
2. A compass view will show your vessel's current position along with a pin marking the location and distance to the MOB waypoint relative to the radio's current position.
3. While in this view, the compass will be set to Track Up and the arrow in the center of the compass will rotate to point towards the location of the MOB waypoint.
4. The radio will also sound a homing tone that increases in frequency the closer you are to the MOB waypoint. To silence this tone, press the TONE softkey.
5. Press the Exit softkey to exit the MOB compass and return to the VHF standby screen.



Rewind Say Again Button



Your radio has the capability to record and playback incoming transmissions, as well pre-record messages that can be sent out by the user on demand.

Turning on Transmission Playback

1. Press the Rewind Say Again key to activate transmission recording.
2. The Rewind Say Again icon and "Rewind Say Again" will show on the LCD display.
3. Any new incoming transmissions will be recorded and saved by the radio.

Playing Back Transmissions

If a transmission was received while Rewind Say Again was active, you can play it back on demand.

1. Press and hold the Rewind Say Again key to enter the Rewind Say Again Menu.
2. Press the ENTER softkey on the View Recordings menu option to view the most recently saved recordings.
3. Choose the desired recording to play and press the PLAY softkey.
4. To delete a recording, press the DEL softkey.

Recording a Message

Your BlueBound 650B has three memory slots that allow you to pre-record messages that can be transmitted on demand. To select a recording slot and record a message, follow the steps below.

Selecting a Message Recording Slot:

1. While in the Rewind Say Again menu, choose the View Messages option with the ENTER softkey.
2. Highlight which message slot you wish to use and press the SELECT softkey to choose that slot. If there is already a message saved in that slot, you will have the option to either delete the current message with the DEL softkey or playback the message with the PLAY softkey.
3. Once the chosen message slot has been selected, the next recorded message will be saved to that message slot.

Recording a Message:

1. While in the Rewind Say Again menu, choose the Record Message option with the ENTER softkey.
2. Press and hold the PTT key to begin recording your message. When you have finished recording, release the PTT key to stop the recording.
3. Press the PLAY softkey to playback your saved message.
4. Press the SAVE softkey to save your message.

Transmitting a Saved Message

1. Make sure you are on the correct channel you wish to transmit your message on.
2. Enter the Rewind Say Again menu by pressing and holding the Rewind Say Again key.
3. Choose the View Messages option with the ENTER softkey
4. Choose which message you want with the SELECT softkey.
5. Press the SEND softkey and then press and hold the PTT to begin the transmission. Continue to hold the PTT key for the duration of the transmission.

VHF Standby Menu Softkeys

Your BlueBound 650B has multiple functions and settings that can be quickly accessed from the VHF standby screen with the softkey buttons. Use the Left/Right arrow keys to scroll through additional options while on the VHF standby screen.

- **Menu:** Press the MENU softkey to open the BlueBound 650B main menu.
- **Scan:** Press the SCAN softkey to automatically scan through all channels. Press and

hold the SCAN softkey to scan through only favorite channels.

- **FAV:** Press the FAV softkey to manually move to the next favorite channel. Press and hold the FAV softkey to save the current channel as a favorite channel.
- **CALL:** Press the CALL softkey to open the DSC call menu.
- **NAV:** Press the NAV softkey to open the navigation compass screen.
- **TW:** Press the TW softkey to start Tri-Watch monitoring.
- **H/M/L:** Press the H/M/L softkey to change transmission power level between 6/3/1W.
- **WX:** Press the WX softkey to enter weather (WX) standby mode.
- **BURP:** Press the BURP softkey to initiate BURP water removal process.
- **LIGHT:** Press the LIGHT softkey to open the backlight menu.
- **LOG:** Press the LOG softkey to open the call waiting menu.
- **MARK:** Press the MARK softkey to mark your current GPS coordinates and save them as a waypoint.

Main Menu

The main menu of the BlueBound 650B allows access to additional settings that can be changed by the user and radio functionality not present directly on the VHF Standby Screen.

Radio Settings:

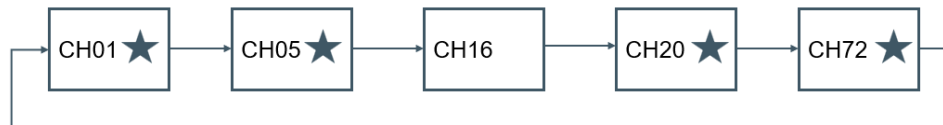
- Backlight
 - **Color:** Use the UP/DOWN arrow keys to select between amber and white backlight colors and press the SELECT softkey to save selection.
 - **Brightness:** Use the UP/DOWN arrow keys to adjust the backlight brightness levels.
- Contrast
 - Use the UP/DOWN arrow keys to adjust the contrast level on the radio.
- Key Tone
 - Use the UP/DOWN arrow keys to select key tone ON/OFF. When key tone is set to ON, the radio will give audio feedback on key press, setting changes and when errors occur
- Noise Reduction

- **TX NR:** Use the UP/DOWN arrow keys to adjust the level of noise reduction on transmitted transmissions (TX). The higher the level chosen within the settings, the greater level of noise reduction provided.
- **RX NR:** Use the UP/DOWN arrow keys to adjust the level of noise reduction on received transmissions (RX). The higher the level chosen within the settings, the greater level of noise reduction provided.
- **Time Adjust**
 - **Time Offset:** Use the UP/DOWN arrow keys to change the local time offset from the Coordinated Universal Time (UTC). Time increments are changed in 30-minute intervals.
 - **Time Format:** Change between 12-hour and 24-hour time formats. The selected time format is displayed on the VHF standby screen.
- **Weather Alert**
 - Choose to activate/deactivate weather alert with the UP/DOWN arrow keys. When weather alert is set to ON, the radio will sound an audible alert when a 1050Hz weather alert tone from the NOAA is received by the radio.
- **GPS**
 - **Coordinate System:** Choose how the GPS coordinates will be displayed on the VHF standby screen with the UP/DOWN arrow keys.
 - DDD°MM,MM
 - DDD°MM,MMM
 - DDD°MM'SS"
 - **SBAS:** Satellite Based Augmentation System (SBAS) can be turned on or off with the UP/DOWN arrow keys. Some areas of the earth need it turned off for greater accuracy. SBAS is set to ON by default.
 - **GPS Status:** Displays the current GPS satellite info and GPS signal strength.
 - **GPS Info:** Allows the user to change the GPS coordinates displayed on the VHF standby screen. When set to ON, the GPS coordinates in the chosen coordinate system will be displayed below the date/time on the VHF standby screen. By default, this is set to OFF.

Channel Settings:

- Priority Channel

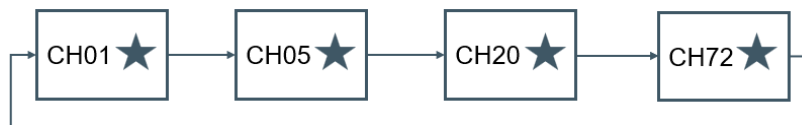
- Use the UP/DOWN arrow keys to turn priority channel ON/OFF. When set to ON, the radio will always include channel 16 during a favorite channel scan, even if channel 16 has not been set as a favorite channel. By default, this is set to ON.



Channel 16 not set as Favorite Channel, but Priority Channel is ON



Priority Channel is OFF, but Channel 16 is set as a Favorite Channel



Priority Channel is OFF and Channel 16 is not set as a Favorite Channel

- Channel Map

- There are 3 sets of VHF channel maps that have been established for marine use in the U.S.A, Canada, and the rest of the world (international). See the channel list in the appendix of the manual for a full breakdown on all channels. Use the UP/DOWN arrow keys to select between the 3 different channel maps.

1. USA
2. International
3. Canada

- Watch Type

- Choose between the two different watch types with the UP/Down arrow keys.
 1. Dual-Watch: Monitor channel 16 and one user selected channel.
 2. Tri-Watch: Monitor channel 16 and two user selected channels.

- Call Channel

- Use the UP/DOWN arrow keys to select the call channel from the provided list of channels. This chosen channel will be monitored when Tri-Watch is activated.

DSC Setup:

- **MMSI Entry**
 - If an MMSI number has not been entered by a user into the radio, this will bring up a keyboard to enter in an MMSI number to the radio. Use the arrow keys to enter in the MMSI number and press the CONFIRM softkey to save entry. If an MMSI number has already been input to the radio, this will display the radio's current MMSI number
- **Individual Directory**
 - **New Entry:** Pressing the NEW softkey while in the individual directory allows the user to input a new record into the individual directory. Use the arrow keys on the keyboard to input the desired name and MMSI number for the new record and press the CONFIRM softkey to save.
 - **Select Saved Entry:** Selecting a saved record brings up a window to either view additional information, edit the saved record, or delete the record from memory.
- **Group MMSI**
 - **New Entry:** Pressing the NEW softkey while in the group directory allows the user to input a new record into the group directory. Use the arrow keys on the keyboard to input the desired name and MMSI number for the new record and press the CONFIRM softkey to save.
 - **Select Saved Entry:** Selecting a saved record brings up a window to either view additional information, edit the saved record, or delete the record from memory.
- **Position Reply**

The BlueBound 650B has the ability to send your position information to another station when requested through a DSC call. This can be set to automatically respond to all position requests it receives or to alert you to a position request and allow for a manual response.

 - Press the UP/DOWN arrow keys to choose between Auto and Manual.
- **Auto Channel Switch**

This setting allows the BlueBound 650B to automatically switch to the requested channel when receiving an individual call.

 - Press the UP/DOWN arrow keys to choose between On and Off.
 - When set to On, the radio will automatically switch to the chosen call channel when a DSC call is received.

- Individual Call Reply

This setting provides the ability to disable automatic replies when receiving Individual DSC calls if desired.

- Press the UP/DOWN arrow keys to choose between Auto and Manual.
- When set to Manual, the radio will prompt the user to reply to a DSC call when received, which can be manually responded to or exited to return to VHF standby mode.

- Manual Position Entry

If the radio cannot acquire a GPS lock, there is an option to manually enter GPS information into the radio. Once entered, that provided GPS information will be used by the radio until a GPS lock has been established, or the radio has been power cycled.

- Use the keyboard to enter the GPS time and coordinates, then press the CONFIRM softkey to save entry into the radio and return to the DSC menu.

Waypoints:

The BlueBound 650B can save waypoints into memory for future reference and direct navigation with the NAV compass.

- Waypoint Directory

Waypoints saved from the VHF standby screen or entered in manually will be saved within the Waypoint Directory.

- Saving a Waypoint from VHF Standby
 1. Press the MARK softkey while in VHF standby when the radio has a GPS lock to save those coordinates as a new waypoint within the waypoint directory.
 2. A new waypoint within the waypoint directory will be created with the relevant coordinates automatically populated. Change the waypoint name to a desired name of choice and press the CONFIRM softkey to save the entry as a new navigation waypoint.
- Saving a new Waypoint from Waypoint Directory:
 1. When in Waypoint Directory, choose between Navigation or MOB waypoints. All waypoints saved from VHF standby with the MARK softkey will be saved into Navigation waypoints and all waypoints saved with the MOB key will be saved into MOB waypoints.
 2. Press the NEW softkey to open a new waypoint setup menu.

3. Use the keyboard to enter in the waypoint name and GPS information.
 4. Press the SAVE softkey to save a new waypoint with the entered information.
- Saving a new Waypoint from NAV Compass
 1. While in the NAV compass screen, press the WPNT softkey to save the current coordinates as a new waypoint within the waypoint setup menu.
 2. Enter in the desired name of the new waypoint with the keyboard entry and press the SAVE softkey to save the entry as a new navigation waypoint.
 - Starting a new Waypoint route in NAV Compass
 1. When in Waypoint Directory, select a saved waypoint from the list of current waypoints within the Navigation Waypoints list.
 2. Press the NAV softkey to put that waypoint into the navigation compass and start a new waypoint route navigation.
- **Arrival Alarm**

When the radio arrives at a waypoint destination, an arrival message will be displayed, and an alert will sound if the arrival alarm is set to ON.

 - Use the UP/ARROW keys to set the arrival alarm either OFF or ON.

Bluetooth:

The BlueBound 650B can pair wirelessly to a mobile phone to receive voice calls or pair wirelessly to a Bluetooth headset for hands free talking on the radio.

- **Pair Phone**
 - Make sure your phone's Bluetooth is turned on.
 - Enter the pair phone menu section from the Bluetooth menu.
 - Select the ON option to turn on Bluetooth pairing at the radio.
 - Open Bluetooth menu on your compatible mobile device. The BlueBound radio should appear in available devices as "BlueBound 650B" Select the BlueBound 650B to initiate pairing.
 - Once the radio has been paired with your phone, you can answer incoming phone calls from the radio directly.

Answering Phone Calls:

- When an incoming call is received by your phone, the radio will play

your phone's ringtone through the radio's speaker indicating there is an incoming phone call.

- Press the PHONE softkey to answer the call. At any time press the END softkey to terminate the phone call.
- Press and hold the PTT while speaking in the radio's microphone to communicate to the caller on the other end of the line.
- When your conversation has finished, press the END softkey to hang up the phone call.

Redial Last Call:

- The BlueBound 650B can call back the last received phone number from the radio directly.
- Select the Redial Last Call menu option and press the ENTER softkey. The radio will initiate a call with the last phone number received.

Pair Headset:

The BlueBound 650B can also pair to a wireless headset for hands free communication while underway.

Before attempting to pair to a wireless headset, make sure that the pair phone menu setting is set to OFF.

Pairing to a new headset

1. Initiate the Bluetooth pairing mode on your headset
2. Select the scan headset menu option on the BlueBound 650B and press the ENTER softkey. A status message will appear showing that the radio is searching for discoverable Bluetooth devices.
3. Select the associated Bluetooth device that displays on screen. A successful pairing message will display once you have connected.
4. While connected to a headset, disconnect at any time by selecting the disconnect menu option and pressing the ENTER softkey.

Connecting to a paired headset

1. Make sure your desired Bluetooth headset is powered on.
2. Choose the device list menu option and press the ENTER softkey
3. Choose the desired headset you wish to connect to from the list of paired devices and press the SELECT softkey.
4. To delete any saved devices, press the DEL softkey.
5. While connected to a headset, disconnect at any time by selecting the

disconnect menu option and pressing the ENTER softkey.

Pair Wireless PTT: The BlueBound 650B can also connect to Cobra's wireless PTT button.

Connecting to a Cobra PTT button

1. Initiate Bluetooth pairing mode on the Cobra PTT button.
2. Select the pair option from the BlueBound 650B wireless PTT menu and press the ENTER softkey.
3. The BlueBound 650B will initiate pairing with the wireless PTT button. If pairing is successful, a status message indicating successful pairing will display on screen. If pairing is unsuccessful, a failed pairing message will display on screen.
4. To disconnect from the wireless PTT button, select the disconnect menu option within the wireless PTT section and press the ENTER softkey.

One Touch PTT: The one touch PTT option allows for transmit (Tx) to be kept open with one press of the PTT button rather than a press and hold of the PTT button.

- When set to ON, pressing the PTT button will initiate transmit mode on the radio and continue transmitting until a second press of the PTT button.
- When set to OFF, transmit mode will only continue while the PTT button is being pressed and held.

Bluetooth VOX: Bluetooth VOX gives the ability to initiate transmit mode by directly speaking instead of pressing the PTT key.

- From the Bluetooth menu, enter the Bluetooth VOX section and choose either on or off and press the SELECT softkey.
- By default, Bluetooth VOX is set to off.

VOX Level: You can adjust the VOX level on Bluetooth VOX to control the voice threshold level at which transmission activated. Setting the VOX level to a higher level increases the voice threshold level required for Bluetooth VOX to activate.

Digital Selective Calling (DSC)

Digital selective calling is a semi-automated system for establishing a radio call. It has been designed by the International Maritime Organization (IMO) as an international standard for VHF, MF, and HF calls and is part of the Global Maritime Distress and Safety System (GMDSS).

The DSC system allows mariners to instantly send a distress call with GPS position coordinates to the Coast Guard and other vessels within range of the transmission. DSC also allows mariners to initiate and receive distress, urgent, safety, routine, position request, position send, and group calls between vessels equipped with DSC Capable Radios.

Maritime Mobile Service Identity (MMSI)

An MMSI is a nine (9) digit number used on a marine radio capable of using digital selective calling (DSC). It is used to selectively call other vessels or shore stations and is similar to a telephone number.

For your Cobra BlueBound radio to operate in the DSC mode, you must enter your MMSI number into the radio.

To obtain an MMSI number in the U.S.A, visit the following sources.

- U.S Power Squadron
- BoatUS

To obtain an MMSI number in Canada, visit the following source

- Industry Canada Spectrum Management Office

*Consult your country's telecommunications authority or ship registry to obtain an MMSI number outside of North America

Entering an MMSI Number: While there is no MMSI number entered in the BlueBound 650B, it will prompt the user to enter in an MMSI number every time the radio is powered on.

1. Press the PROG softkey from the main VHF standby screen when the radio prompts the user to enter in their MMSI number.
2. Use the keyboard to enter your 9 digit MMSI number and press the CONFIRM softkey.
3. The radio will prompt you to re-enter the MMSI number to ensure accuracy. Enter the correct MMSI number and press the CONFIRM softkey to save the MMSI number. If an incorrect MMSI number is entered, the MMSI number will not be

saved.

***You can only enter in an MMSI number once on the radio. If an MMSI number has been saved on the radio and it needs to be changed to a new number, you must contact Cobra customer service to reset the radio's MMSI number.**

DSC Call Menu:

The BlueBound 650B has multiple different call methods that can be initiated with other stations. To access this menu and the different DSC call options, press the CALL softkey from the VHF standby screen.

- Individual Call

The BlueBound 650B has two options for initiating an Individual Call. A call can either use manually entered information or utilize information from a saved record within the Individual Directory. If there are no saved records within the Individual Directory, only manual will be available as an option.

- Call a saved station from Individual Directory

1. Select an eligible record from the list. The list will only show records from the Individual Directory.
2. Select the desired call channel from the dropdown list and press the ENTER softkey.
3. Press the ENTER softkey to initiate the DSC Individual call.
4. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
5. If needed, press the REPEAT softkey to repeat the transmission.
6. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio and the radio will switch to the chosen channel.

- Call a manually entered station

1. To call a chosen station manually, select the Manual option within the Individual Call menu.
2. Enter in the station's MMSI number using the keyboard and press the CONFIRM softkey.
3. Select the desired call channel from the dropdown list and press the ENTER softkey.
4. Press the ENTER softkey to initiate the DSC individual call.

5. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
6. If needed, press the REPEAT softkey to repeat the transmission.
7. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio and the radio will switch to the chosen channel.

- **Group Call**

The group call function behaves in a similar manner to the individual call function. Like the individual call, there are two ways to initiate a group call, either manually or from a saved record. The group call list instead pulls from the Group MMSI list of saved records instead of the individual directory.

- Call a saved station from Group MMSI

1. Select an eligible record from the list. The list will only show records from the Group MMSI.
2. Select the desired call channel from the dropdown list and press the ENTER softkey.
3. Press the ENTER softkey to initiate the DSC group call.
4. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
5. If needed, press the REPEAT softkey to repeat the transmission.
6. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio and the radio will switch to the chosen channel.

- Call a manually entered station

1. To call a chosen station manually, select the Manual option within the Group Call menu.
2. Enter in the station's MMSI number using the keyboard and press the CONFIRM softkey.
3. Select the desired call channel from the dropdown list and press the ENTER softkey.
4. Press the ENTER softkey to initiate the DSC group call.
5. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
6. If needed, press the REPEAT softkey to repeat the transmission.
7. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio, and the radio will switch to the chosen

channel.

- All Ships Call

All ships that have a DSC transceiver use Channel 70 as their listening channel. The all ships call gives the ability to announce a message to all ships within range on the DSC channel 70. There are two message types that are a part of an all ships call, Safety or Urgency.

- Initiating an All Ships Call

1. Select the all ships call option with the DSC Call Menu.
2. Choose either Safety or Urgency for the nature of the all ships call.
3. Select the desired call channel from the dropdown list of channels.
4. Press the ENTER softkey to initiate the All Ships Call.
5. While the call is waiting for acknowledgement, the radio will show a standby screen with the elapsed time and the chosen call channel.
6. If needed, press the REPEAT softkey to repeat the transmission.
7. When the call has been acknowledged, an acknowledgement screen will be displayed on the radio, and the radio will switch to the chosen channel.

Note: Only use the All Ships Call for highly important transmissions (Safety/Urgency). For regular DSC calls, use either the individual or group call options listed earlier.

- Position Request

The position request function enables the BlueBound 650B to obtain the position of a DSC station. This request can either be made manually or from a saved entry within the Individual Directory.

- Position Request from Individual Directory

1. Select an eligible record from the list. The list will only show records from the Individual Directory.
2. A message will appear with the chosen record from the Individual Directory list with a question to transmit or not.
3. Press the ENTER softkey to initiate the position request with the selected station.
4. A waiting for acknowledgement screen will display on the radio once the request has been transmitted out. To repeat the transmitted request, press the REPEAT softkey.
5. When the request has been acknowledged, the radio will display an

acknowledged status screen. Press the INFO key to display the request GPS coordinates.

6. To save the GPS coordinates as a new waypoint to navigate towards, press the WPNT softkey.

- **Call Waiting**

The Call Waiting section of the menu stores a record of all DSC distress and received calls. Entering each saved call record will show a brief description of the transmission received.

- Viewing a saved DSC call

1. While on the Call Waiting menu, choose between either Distress or Received Calls to view a record of all saved calls.
2. Select a record to see additional details about the nature of the received call.

- Deleting DSC Call Records

1. Select the Delete Call Logs options within the Call Waiting menu.
2. Choose between either Distress or Received calls list of the DSC calls. A message will pop up asking if you would like to delete the associated call logs.
3. Press the ENTER softkey to delete the currently selected call logs and return to the previous menu.

- **Test Call**

The test call function allows the user to confirm that the radio is fully operation and that the DSC call functions are working properly. The steps for initiating a Test call are the same as with an Individual Call, the transmitted message will instead indicate that it is a test call.

DSC Distress Call

The BlueBound 650B features a dedicated distress button for emergency transmissions to the Coast Guard and nearby stations. An MMSI number must be programmed into the radio for the DSC distress button to work.

Sending a DSC Distress Call

1. Press the DISTRESS button located on the side of the BlueBound 650B to bring up the nature of distress menu.

2. Choose the distress from the list that corresponds best to the current nature of distress, or undesignated if no other options are applicable.
3. Press the ENTER softkey to select the chosen distress and enter the distress standby menu.
4. Press and hold the distress key for 3 seconds to initiate the distress call.
5. After transmitting, a screen will display while waiting for acknowledgement along with a timer from when the transmission was sent. You can repeat the transmission if necessary, with the softkey.
6. Once the transmission has been acknowledged, the radio will show a confirmation screen along with a confirmation alarm.

Navigation Compass (NAV)

The BlueBound 650B features a compass for additional navigational support while underway. This can be accessed from the VHF standby screen by pressing the NAV softkey. While in the compass view, your vessel's position will be plotted along with supplemental navigational information.

- Speed Over Ground (SOG)
- Bearing (BRG)
- Course Over Ground (COG)

While in the compass screen, you can save your vessel's current position as a new waypoint by pressing the WPNT softkey. Use the keyboard to adjust the waypoint name as needed.

NOAA Weather

NOAA provides continuous, around-the-clock broadcasts of the latest weather forecast. Recorded weather messages repeat every four to six minutes and are revised every two or three hours or as needed. The Coast Guard also announces weather and other safety warnings on Channel 16.

Weather (WX) Standby Mode

To enter the WX Standby mode, press and release the WX softkey. When your radio is in WX Standby mode, the following items will be displayed on the LCD display.

- The WX icon (cloud icon)
- The current weather channel

- “WX ALERT ON/OFF” status

Note: Only one or two of the weather channels will be operating in any given location (only in Receive (Rx) mode). You will need to select the channel with the strongest signal in your location.

Weather Alert

Weather Alert (WX Alert) allows your radio to listen for NOAA Hazard Alerts while in VHF standby mode. When WX Alert is turned ON, the unit’s dedicated weather receiver will periodically check for received weather alert tones.

If a WX Alert is received the radio will sound a weather alert tone and automatically switch to the alerting weather channel so the alert broadcast can be heard.

To turn WX Alert ON, press the ALERT softkey while in WX Standby Mode. The LCD will display the weather alert triangle icon on the LCD display along with the status message “WX ALERT ON”.

Standby, Receive and Transmit

Marine Standby and Receive (Rx) Mode

Marine Standby mode is the default mode for the radio whenever it is turned on. From this mode, you can change current settings with the different key functions that are active in Marine Standby mode. While in Marine Standby mode, the user will be able to transmit by pressing the Push to Talk (PTT) button. Users will hear messages on the selected channel(s) they are tuned to while in Marine Standby mode.

Transmit (Tx) Mode

Transmit (Tx) mode gives you the ability to interact with safety services, other vessels, and shore stations. When using this capability, be sure to follow the procedures and to observe the courtesies that govern its use. See the Appendix to help select the proper channel(s).

To Transmit a Message:

1. Check to see that your radio is set to a proper channel for the type of message you plan to send.
2. With the microphone about 2 inches from your mouth, press and hold the PTT button and speak into the microphone. The Transmit icon will appear on the LCD.
3. Release the PTT button when you are finished speaking. Your radio can only operate in either Transmit (Tx) or Receive (Rx) mode at any given time. You will not hear the response to your message unless the PTT button is released. If the battery power icon begins blinking on the LCD when the PTT is pressed, the radio will not transmit.

Note: If the PTT button is held down for five minutes, the radio will automatically sound a series of beeps and cease transmitting to prevent unwanted signal generation and battery drain. As soon as the PTT button is released, it can be pressed again to resume transmission.

Radio Care

Very little maintenance is required to keep your Cobra marine VHF radio in good operating condition:

- Keep the radio clean by wiping with a soft cloth and mild detergent. Do not use solvents or harsh, abrasive cleaners that could damage the case or scratch the LCD screen.
- If the radio is exposed to salt water, wipe with a soft, moist cloth at least once a day to prevent buildup of salt deposits, which could interfere with button operation.
- If the radio will be stored for a long period, such as over the winter, remove the batteries from the battery tray and store them in a separate package. This is especially important if you are using alkaline batteries.

Problem	Possible Cause(s)	Solution(s)
No display on LCD when radio is turned ON.	Battery is exhausted	Recharge or replace battery
Lithium-ion battery runs down quickly	Battery is at the end of its life	Replace with new battery
Will transmit at 1 Watt, but not at 3 or 6 Watts	Battery is low Selected channel is limited to 1 Watt	Recharge or replace battery Switch to another channel
Will not transmit	Selected channel is limited to receive only	Switch to another channel
No response to button press	Key Lock is ON	Press and Hold the Key Lock button until the key lock icon disappears on the LCD

VHF Marine Radio Procedures

Maintain Your Watch

Whenever your boat is underway, your radio must be operational and tuned to Channel 16 unless being used for other communications.

Power

Try 1 watt first, if the station being called is within a few miles. If there is no answer, switch to 3 watts and call again. If necessary, increase to 6 watts of output power to maximize your calling distance. The lower wattage outputs will conserve your battery and minimize interference to other users.

Calling Coast Stations

Call a coast station on its assigned channel. You may use Channel 16 when you do not know the assigned channel.

Calling Other Vessels

Call other vessels on Channel 16 or on Channel 9 (Channel 9 is preferred for recreational vessel use). You may also call on ship-to-ship channels when you know that the vessel is listening on a ship-to-ship channel.

Initial Calling on Channel 16 or 9

The use of Channel 16 is permitted for making initial contact (hailing) another vessel. The limits on calling must be followed. As a reminder, Channel 16's most important function is for Emergency Messages. If for some reason, Channel 16 is congested, the use of Channel 9, especially in U.S. waters, may be used as the initial contact (hailing) channel for non-emergency communication.

Limits on Calling

You must not call the same station for more than 30 seconds at a time. If you do not get a reply, wait at least two minutes before calling again. After three calling periods, wait at least 15 minutes before calling again.

Change Channels

After contacting another station on a calling channel, change immediately to a channel designated for the type of message you want to send.

Station Identification

At both the beginning and at the end of your message, make sure to identify yourself by specifying your vessel name, state registration number, and FCC call sign (if applicable).

Prohibited Communications

You **MUST NOT** transmit:

- False distress or emergency messages.
- Messages containing obscene, indecent, or profane language.
- General calls or signals on Channel 16 (excluding emergencies)
- When you are on land.

Voice Calling

You are required to listen to channel 16 while standing by. Channel 16 is the distress and safety channel used for establishing initial contact with another station and for emergency communication. The Coast Guard also monitors Channel 16 for safety purposes for everyone on the water.

Note: Channel 9 may be used by recreational vessels for general-purpose calling. This frequency should be used whenever possible to help relieve congestion on Channel 16. The Coast Guard generally does not make urgent marine information broadcasts or weather warnings on Channel 9. Boaters are still asked to “keep watch” on Channel 16 whenever the radio is turned on and not in use with another station.

To call another vessel or shore installation (e.g., lock or bridge tender):

- Make sure the radio is ON.
- Make sure you are in standby listening mode on Channel 16. Make sure channel 16 is not in use.
- When the channel is open (quiet), press the PTT button and call a vessel. Hold the radio several inches from your face and speak clearly and distinctly in a normal voice tone. Say “name or station being called,” “This is [your vessel name or call sign].”
- Once contact is made, you must leave Channel 16 and go to another working channel.
- If the other party does not respond, wait two minutes and repeat. You are permitted to attempt contact 3 times, two minutes apart. If you still have not made contact, wait 15 minutes before trying again.
- After communications are completed, each vessel must sign off with its call sign or vessel name and the word “out” and return to Channel 16

Note: “Over and Out”

The most commonly misused procedure words are “over and out” within the same transmission. “Over” means you expect a reply. “Out” means you are finished and do not expect a reply.

Emergency Messages and Distress Procedure

The ability to summon assistance in an emergency is the primary reason for having a VHF marine radio. The marine environment is unforgiving and what may initially be a minor problem can rapidly develop into a situation beyond your control.

The Coast Guard monitors Channel 16, responds to all distress calls, and coordinates all search and rescue efforts. Depending on the availability of other capable vessels or commercial assistance operators in your vicinity, Coast Guard or Coast Guard Auxiliary craft may be dispatched.

In any event, communicate with the Coast Guard as soon as you experience difficulties and before your situation becomes an emergency. Use the emergency message procedures only after your situation has become grave or you are faced with sudden danger threatening life or property and requiring immediate help. Use Channel 16 to communicate your emergency message. Make sure you transmit on high power. If you are merely out of fuel, do not send an emergency message. Drop your anchor and call a friendly vessel or marina to bring the fuel you need or give you a tow.

Marine Emergency Signals

The three spoken international emergency signals are:

1. MAYDAY: The distress signal MAYDAY is used to indicate that a station is threatened by grave and imminent danger and requests immediate assistance.
2. PAN PAN: The urgency signal PAN PAN is used when the safety of the vessel or person is in jeopardy. (This signal is properly pronounced pahn pahn.)
3. SECURITE: The safety signal SECURITE is used for messages about the safety of navigation or important weather warnings. (This signal is properly pronounced see-cure-ee-tay.)

When using an international emergency signal, the appropriate signal is to be spoken three times prior to the message.

If You Hear a Distress Call

Give priority to any message beginning with one of these signals. ALL stations MUST remain silent on Channel 16 for the duration of the emergency unless the message relates directly to the emergency.

If you hear a distress message from a vessel, stand by your radio. If it is not answered, YOU should answer. If the distressed vessel is not nearby, wait a short time for others who

may be closer to acknowledge. Even if you cannot render direct assistance, you may be able to relay the message for assistance.

Example Marine Distress Procedure

Speak slowly — clearly — calmly.

1. Make sure your radio is On.
2. Select Channel 16.
3. Press Talk button and say: "MAYDAY — MAYDAY — MAYDAY." (Or "PAN PAN— PAN PAN— PAN PAN," or "SECURITE — SECURITE — SECURITE.")
4. Say: "THIS IS [your vessel name or call sign]," repeated three (3) times.
5. Say: "MAYDAY (or "PAN PAN" or "SECURITE") [your vessel name or call sign].
6. Tell where you are: (what navigational aids or landmarks are nearby).
7. State the nature of your distress.
8. State the kind of assistance needed.
9. Give number of persons aboard and conditions of any injured.
10. Estimate present seaworthiness of your vessel.
11. Briefly describe your vessel (length, type, color, hull).
12. Say: "I WILL BE LISTENING ON CHANNEL 16.
13. End message by saying: "THIS IS [your vessel name or call sign]. OVER."
14. Release Talk button and listen. Someone should answer. If not, repeat the call, beginning at step 3 above.

Warranty Terms:

Cobra warrants your product against all defects in materials and workmanship for a period of three (3) years from the date of original purchase.

Cobra, at our sole discretion, will repair or replace your product (with the same or comparable product) free of charge.

Cobra will not pay shipping charges that you incur for sending your product to us. Products received COD will be refused.

To make a warranty claim, we will require proof of purchase in the form of an invoice or receipt. No proof of purchase is required for factory direct purchases.

Warranty Exclusions: Warranty does not apply to your product under any of the following conditions: 1. The serial number has been removed or modified. 2. Your product has been subjected to misuse or damage (including water damage, physical abuse, and/or improper installation). 3. Your product has been modified in any way. 4. Your receipt or proof-of-purchase is from a non-authorized dealer or internet auction site including E-bay, U-bid, or other non-authorized resellers.

LIMITATION OF WARRANTY: EXCEPT AS EXPRESSLY PROVIDED HEREIN, YOU ARE ACQUIRING THE PRODUCT "AS IS" AND "WHERE IS", WITHOUT REPRESENTATION OR WARRANTY. COBRA SPECIFICALLY DISCLAIMS ANY REPRESENTATION OR WARRANTY INCLUDING, BUT NOT LIMITED TO THOSE CONCERNING THE MERCHANTABILITY AND SUITABILITY OF THE PRODUCT FOR A PARTICULAR PURPOSE. COBRA SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES ARISING OUT OF THE USE, MISUSE OR MOUNTING OF THE PRODUCT.

The above limitations or exclusions shall be limited to the extent they violate the laws of any particular state. Cobra is not responsible for products lost in shipment between the owner and our service center.

General Warranty Information

Each product we manufacture is covered by our factory warranty. While each product may have unique components and policy, the general guideline below will apply to most Cobra products.

All Cobra products purchased factory-direct or from our Authorized Resellers will come with a full one to three (1-3) year warranty from the date of the original retail purchase (see policy statement above for full warranty details and exclusions).

Standard accessories packaged with each model will have a one-year factory warranty.

Accessory items have a one-year factory warranty.

Shipping to our facility is not covered in our warranty. Return shipping is included within the US.

This warranty is non-transferable.

For the sake of clarity, 'repair or replace the Product or its defective part' does not include removal

or installation work, costs or expenses which include but are not limited to labor costs or expenses. Cobra will not be responsible for lost packages.

If you have any questions about operation or installing your new Cobra product, PLEASE CONTACT COBRA FIRST...do not return this product to any retail store.

The contact information for Cobra will vary depending on the country in which you purchased and utilize the product. For the latest contact information, please go to www.cobra.com/support

For products purchased in the U.S.A. you may call 800-543-1608.

Should there be any problems with this product or further information is needed on its features please visit www.cobra.com for support, frequently asked questions, Declarations of Conformity, and full manuals.

Disposal of Old Electrical or Electronics Equipment

This product may contain hazardous substances that could impact health and the environment if not disposed of properly.

The crossed out wheeled bin symbol indicates that the product should not be disposed of along with household waste. It should be handed over to an applicable collection point for the recycling of electrical equipment. By ensuring that this product is disposed of correctly you will help/prevent potential negative impact on the environment.

If you need more information on the collection, reuse and recycling systems, please contact your local civic office or the shop where it was originally purchased.

Specifications:

General	
Channel Spacing	25kHz
Modulation	FM
Input Voltage	7.4 V Nominal
Battery Life: 5% TX, 5% RX, 90% Standby	8 Hours (High Power) 12 Hours (Low Power)
Temperature Range	-15C to +55 degC
Radio Dimensions	267mm H x 70mm W x 57mm D
Radio Weight	340g
Receiver	
Frequency Range	FCC:156.05-162.00MHz
	IC:156.075-162.00MHz
Sensitivity: 12 dB Sinad	-120 dBm
Adjacent Channel Selectivity	-70 dB

Intermodulation and Rejection	-70 dB
Spurious and Image Rejection	-60 dB
AF Output	700 mW @ 8 Ohms
Transmitter	
Frequency Range (Tx)	FCC:156.050-157.425MHz,IC:156.025-157.425MHz DSC:156.525 MHz
RF Output Power	1, 3, 6 Watts max
Spurious Emissions	-55 dB
Microphone Type	Electret
Frequency Stability	+/-10 ppm
FM Hum and Noise	40 dB
GPS	
Receiver	56 Channels
Hot: Nominal: < 1 second, Limit +/- 5 seconds Cold: Nominal: 30 seconds, Limit +/- 10 seconds	
Antenna Type	Internal Patch Antenna
GPS receiver first lock sensitivity	-148 dBm
GPS receiver tracking sensitivity	-165 dBm
Differential System Compatibility	Yes
Bluetooth	
Classification	Standard and BLE
Version	5.2
Range	10 Meters
Frequency Range	TX/RX:2402-2480MHz

Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Antenna Type: Helical antenna Antenna Gain: 2dBi

Les types d'antennes non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type énuméré sont strictement interdits d'être utilisés avec ce dispositif.

Type d'antenne: Antenne hélicoïdale.

Gain d'antenne: 2dBi

VHF Marine Channel Assignments

Three sets of VHF channels have been established for marine use in the U.S.A., Canada and the rest of the world (International). Many of the channels are the same for all three maps, but there are important distinctions (see table on the following pages). Your radio has all three maps built into it and will operate correctly in whichever area you choose.

The following is a brief outline of the channel assignments in the U.S.A. Channel Map.

Channel Assignments (English)

Public Correspondence (Marine Operator)

Channels 84, 85, 86, 87, 87A, 88*

For calls to marine operators at public coast stations. You can make and receive telephone calls through these stations.

Port Operations

Channels 1A*, 5A*, 12*, 14*, 20A, 63A*, 65A, 66A, 73, 74, 75, 76, 77*

Used for directing the movement of ships in or near ports, locks or waterways. Messages must be about operational handling, movement and safety of ships.

Navigational

Channels 13, 67

Channels are available to all vessels. Messages must be about navigation, including passing or meeting other vessels. These are also the main working channels for most locks and drawbridges. You must keep your messages short and power output at no more than 1 watt.

Maritime Control

Channel 17

For talking to vessels and coast stations operated by state or local governments. Messages must be about regulation and control, boating activities, or assistance.

Digital Selective Calling

Channel 70

This channel is set aside for distress, safety and general calling using only digital selective calling techniques. Voice communication is prohibited; your radio cannot transmit voice messages on this channel.

Weather

Channels Wx 1 Thru 12

Receive-only channels for NOAA and Canadian weather broadcasts. You cannot transmit on these channels.

Note: These channels are restricted to the listed uses in certain parts of the country or for certain types of users only. Consult FCC rules or a knowledgeable radio operator before using them.

VHF Marine Channel Assignments (English)

NOTE: Many of the plain-numbered channels, such as 01, 02 and 03, transmit and receive on different frequencies. This is termed duplex operation. Some other plain-numbered channels (Including 4-digit channels) and all the A channels, such as 01A, 03A and 04A, transmit and receive on a single frequency, which is termed simplex operation. Your radio automatically adjusts to these conditions. This radio includes new four-digit channels to be compliant with the latest and future regulations.

Weather Channel Assignments

Channel Number Numero de canal	RX Frequency MHz Frecuencia de recepcion	Weather Channel Weather Channel
1	162.550	NOAA
2	162.400	NOAA
3	162.475	NOAA
4	162.425	NOAA
5	162.450	NOAA
6	162.500	NOAA
7	162.525	NOAA
8	161.650	Canada
9	161.775	Canada
10	163.275	NOAA
11	161.750	Canada
12	162.000	Canada

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

---Reorient or relocate the receiving antenna.

---Increase the separation between the equipment and receiver.

---Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

---Consult the dealer or an experienced radio/TV technician for help.

Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch(2.5cm) away from the nose. keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes.

when worn on the body, always place the radio in approved clip, holder, holster, case, or body harness for this product. Use of non-approved accessories may result in exposure levels, which exceed the occupational/controlled environment RF exposure limits. Use only manufacturer's name approved supplied or replacement antennas, batteries, and accessories. Use of non-manufacturer-name approved antennas, batteries, and accessories may exceed the FCC and IC RF exposure guidelines.

For a list approved accessories please consult your local dealer for information.

Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for the higher exposure.

to qualify for the higher exposure limits.

Your wireless hand-held portable transceiver contains a low power transmitter.

This product sends out radio frequency (RF) signals when the Push-to-Talk (PTT) button is pressed.

The device is authorized to operate at a duty factor not to exceed 50%.

Tenez la radio en position verticale devant le visage avec le microphone (et les autres parties du la radio, y compris l'antenne) à au moins un pouce 2,5 cm) du nez. Garder le la radio à la distance appropriée est importante parce que les expositions RF diminuent avec la distance de l'antenne. L'antenne doit être tenue loin des yeux.

Lorsqu'il est porté sur le corps, placez toujours la radio dans un clip approuvé, un support, une bote, ou harnais de corps pour ce produit. L'utilisation d'accessoires non approuvés peut entraîner des niveaux d'exposition, qui dépassent les limites d'exposition aux RF pour la professionnel/l'environnement contrôlé.

Utilisez uniquement les antennes fournies ou de remplacement approuvées par le nom du fabricant, les batteries et accessoires. Utilisation d'antennes, de batteries et d'accessoires non homologués par le fabricant peut dépasser les lignes directrices FCC et IC RF d'exposition.

Pour une liste d'accessoires approuvés, veuillez consulter votre concessionnaire local pour obtenir des informations.

Les utilisateurs doivent être pleinement conscients des dangers de l'exposition et pouvoir exercer un contrôle sur leur Exposition aux RF pour se qualifier pour les limites d'exposition plus élevées.

Votre émetteur-récepteur portable sans fil contient un émetteur à faible puissance. Ce produit envoie des signaux de radiofréquence (RF) lorsque le bouton Push-to-Talk (PTT) est appuyé. Le dispositif est autorisé à fonctionner à un facteur de travail ne dépassant pas 50 %.